

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/053482

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04J3/04 H04J3/16 H04Q11/04 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04J H04B H04Q H04L G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	EP 1 453 346 A (CNX S.P.A) 1 September 2004 (2004-09-01) abstract paragraph '0004! - paragraph '0017! paragraph '0024! paragraph '0042! - paragraph '0052!	1-10
P, X	TDK: "Datasheet of 78P2351R" 'Online! 11 February 2004 (2004-02-11), XP002326344 Retrieved from the Internet: URL: <a href="http://www.tdksemiconductor.com/push_file_for_download.cfm/PDS2351RA04v1-1.pdf?file_directory=54%5DZCGIE%29H%28V%26K%3A%3A%2DJE7%21%405VC%40%40BR%0A&amp;file_name=31Z%22LQ%3C09Y%3A%5ER%5F%5CZ%2C%5FAJOR42K%400%20%21%0A">http://www.tdksemiconductor.com/push_file_for_download.cfm/PDS2351RA04v1-1.pdf?file_directory=54%5DZCGIE%29H%28V%26K%3A%3A%2DJE7%21%405VC%40%40BR%0A&amp;file_name=31Z%22LQ%3C09Y%3A%5ER%5F%5CZ%2C%5FAJOR42K%400%20%21%0A</a> > 'retrieved on 2005-03-31! the whole document	1-10



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

27 April 2005

Date of mailing of the international search report

11/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Chauvet, C

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/053482

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	TDK: "78P2351R" 'Online! 1 February 2004 (2004-02-01), XP002326345 Retrieved from the Internet: URL: <a href="http://www.tdksemiconductor.com/products/product_detail.cfm?product_key=56">http://www.tdksemiconductor.com/products/product_detail.cfm?product_key=56</a> 'retrieved on 2005-03-31! the whole document -----	1-10
A	US 2003/180012 A1 (DEANE PETER ET AL) 25 September 2003 (2003-09-25) abstract	1-3
X	paragraph '0013! - paragraph '0017! -----	4-10
A	TAMANUKI T ET AL: "Multi form pluggable 8-channel Tx/Rx module for OC-3/OC-12" LEOS 2003. 16TH. ANNUAL MEETING OF THE IEEE LASERS & ELECTRO-OPTICS SOCIETY. TUCSON, AZ, OCT. 27 - 28, 2003, ANNUAL MEETING OF THE IEEE LASERS AND ELECTRO-OPTICS SOCIETY, NEW YORK, NY, vol. 1 OF 2, 26 October 2003 (2003-10-26), pages 569-570, XP010674897 ISBN: 0-7803-7888-1	1-3
X	the whole document -----	4-10

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/053482

Patent document cited in search report.		Publication date	Patent family member(s)	Publication date
EP 1453346	A	01-09-2004	EP 1453346 A1	01-09-2004
US 2003180012	A1	25-09-2003	US 6497518 B1	24-12-2002
			DE 10217071 A1	30-10-2003
			TW 577199 B	21-02-2004
			US 2003087505 A1	08-05-2003
			US 2003189214 A1	09-10-2003
			US 2004048417 A1	11-03-2004
			US 6624507 B1	23-09-2003
			US 6642613 B1	04-11-2003